

Table 1-2. Identified Planned Conveyance Projects

Project Name	Year that 20-yr peak capacity is Exceeded	Estimated Range of Project Completion	Estimated Project Cost	Color Key
Heathfield/Sunset Pump Station Replacement and Force Main Upgrade	Before 2000 ^a	2010-2013	\$51,000,000	Planned High Priority Projects (7 total)
Bellevue Influent Trunk Parallel	Before 2000	2010-2013	\$2,500,000	
[CSI] Sammamish Plateau Diversion	Before 2000	2014-2030	\$24,800,000	
Northwest Lake Sammamish Interceptor Parallel	Before 2000	2014-2030	\$23,500,000	
Coal Creek Siphon and Trunk Parallel	Before 2000	2014-2030	\$7,100,000	
North Mercer and Enatai Interceptor Parallels	Before 2000	2014-2030	\$24,900,000	
Lake Hills Trunk Replacement	Before 2000	2014-2030	\$15,000,000	
[CSI] Thornton Creek Interceptor Parallel	Before 2000	2014-2030	\$7,600,000	Planned Medium Priority Projects (6 total)
[CSI] Sammamish Plateau Storage	Before 2000 ^a	2014-2030	\$33,200,000	
Boeing Creek Storage Expansion	Before 2000	2014-2030	\$9,100,000	
Algona Pacific Trunk Stage 1	Before 2000	2014-2030	\$4,500,000	
Richmond Beach Storage	Before 2000	2014-2030	\$14,000,000	
Factoria Pump Station and Trunk Diversion	Before 2000	2014-2030	\$10,200,000	
[CSI] Soos Alternative 3A(3) – Pump Station D with Conveyance	Before 2000 ^b	2014-2030	\$42,000,000	Planned Lower Priority Projects (20 total)
[CSI] Soos Alternative 3A(3) – Pump Station H with Conveyance	Before 2000 ^b	2014-2030	\$47,000,000	
[CSI] Soos Alternative 3A(3) – Pump Station B with Conveyance	N/A ^c	2014-2030	\$7,900,000	
[CSI] Issaquah Storage	Before 2000 ^a	2014-2030	\$22,900,000	
Eastgate Parallel Pipe Storage	Before 2000 ^a	2014-2030	\$23,800,000	
Bryn Mawr Storage	2005	2014-2030	\$8,700,000	
Medina Storage	2009	2014-2030	\$1,100,000	
Issaquah Creek Highlands Storage	2009 ^a	2014-2030	\$2,400,000	
South Renton Interceptor Parallel	2011	2014-2030	\$3,600,000	
Issaquah Interceptor Section 2 Parallel	2011 ^a	2014-2030	\$2,800,000	
York Pump Station Modifications	2016	2014-2030	\$8,400,000	
Projects within RWSP horizon (2030) Subtotal			\$398,000,000	

Project Name	Year that 20-yr peak capacity is Exceeded	Estimated Range of Project Completion	Estimated Project Cost	Color Key
[CSI] Swamp Creek – Section 1B Parallel	2017	2031-2050	\$9,000,000	Planned Lower Priority Projects (20 total, cont.)
Garrison Creek Trunk Parallel	2018	2031-2050	\$6,000,000	
Juanita Bay Pump Station Force Main Upgrade	2020	2031-2050	\$15,000,000	
ULID 1 Contract 4 Parallel	2021	2031-2050	\$3,800,000	
Lower North Creek Interceptor Parallel	2024	2031-2050	\$11,500,000	
Algona Pacific Trunk Stage 2	2027	2031-2050	\$1,400,000	
Auburn Interceptor – Section 3 Parallel Pipe Storage	2028	2031-2050	\$31,000,000	
Upper North Creek Parallel	2029	2031-2050	\$4,800,000	
Lakeland Hills Pump Station Replacement	2040	2031-2050	\$6,000,000	
Projects after RWSP horizon (2030) Subtotal			\$88,600,000	
Total Planned Projects			\$486,600,000^d	

^a The South Lake Sammamish Planning Basin has seven projects that are all capable of contributing to increased level of service to downstream capacity constraints. The proposed prioritization accounts for the phasing of projects to address capacity constraints over time by including O&M issues along with coincident benefits in the decisions on the preferred course of action.

^b Initially, Soos Pump Stations D and H were planned to serve existing customers and planned growth for the Black Diamond Service and Soos Creek areas. The Black Diamond Storage Project will delay the need for the pump stations and conveyance lines for 10 to 20 years.

^c Area not currently served by regional conveyance facilities

^d Estimated costs in 2006 dollars

modifications to the project list that resulted from basin planning, application of improved cost estimating models, and the addition of new projects to address newly identified needs. The 2004 RWSP Update showed that large portions of the conveyance system cannot convey the 20-year peak flow. However, it is not practical to simultaneously construct all identified CSI projects necessary to bring facilities up to this standard. Such an approach would be extremely expensive and potentially disruptive to system operation. Therefore, the King County Council directed WTD to develop options for phasing or deferring non-Brightwater conveyance facilities anticipated for the 2006-2011 capital improvement plan, and in the 30-year RWSP capital plan (*Ordinance No. 14942 [2] [F], adopted 6/17/04*). In response to this directive, WTD and the component agencies worked collaboratively to identify and analyze alternative cost containment strategies. The alternatives analyzed included approaches to downsizing, phasing, or delaying construction of projects. Through this effort, it was determined that delaying or phasing project construction would be the best method of containing costs over time. Delaying projects did not reduce the overall capacity standard to be achieved, and allowed WTD to focus on the region's most pressing conveyance needs with minimal risk to public health or the environment, or impact to ratepayers. To assist in identifying the most pressing conveyance system needs, WTD and the component agencies developed eight prioritization criteria that address such factors as public health risks, coincident benefits, costs, and rate impacts. These prioritization criteria were submitted to the County Council in a report entitled "Prioritization Guidelines for Phasing Conveyance System Improvement Projects" in October 2004 in response to Ordinance No. 14942 (2) (F).